OSPI School Seismic Safety Work Session House Capital Budget Committee January 18, 2022

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OSPI's School Seismic Safety Retrofit Program



Eastmont High School's seismic reinforcements, Wenatchee

- OSPI's newest capital grant program.
- Performs engineering studies and seismic retrofits to high seismic-risk schools as identified by DNR.
- Prioritizes high-risk buildings and districts with limited financial capacity.
- Considers a building's "useful life."
- Steered by a committee of subject matter experts. (Seismologists, Geologists, Engineers).



2020 Supplemental Capital Budget

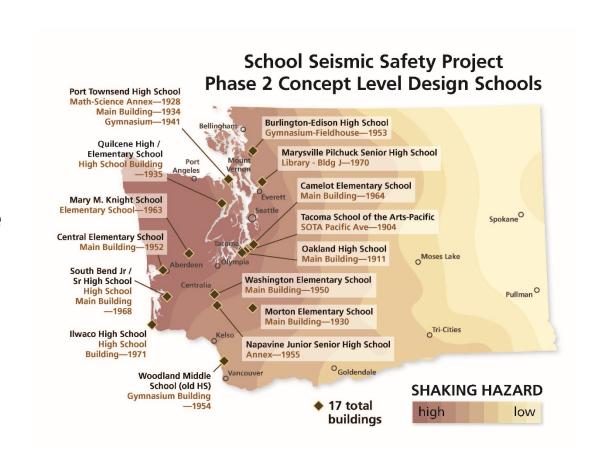
- \$13.24 million provided for retrofits to very high-risk schools (shaded in red).
- North Beach SD: The district is running a capital bond to compliment the \$6M included in the Governor's proposed capital budget. OSPI's seismic committee determined that a retrofit is not appropriate for Pacific Beach ES and recommends using retrofit funding for relocation/replacement.
- Centralia SD: Retrofit complete at Edison ES. OSPI finalizing district reimbursements.
- Boistfort SD: Under design. Highly liquefiable soils discovered, which could impact project cost.
- South Bend SD: Retrofit grant awarded.
- Cosmopolis SD: Planning grant awarded.
- Marysville SD: Planning grant awarded.

School District, School Building, Bldg. Type	Original Date of Construction	ICOS Life Safety Risk Level	Percentage of Building Damaged	Bldg. Gross Area (SF)	Total Upgrade Cost Range \$/SF (Total)		Median Total Cost (millions)
Reinforced Masonry	1550	veryriigii	31/0	10,013	91 13 (91. 10IVI)	(\$2.74M)	\$2,00,11
Centralia, Edison Elementary, Main Bldg, Unreinforced Masonry	1918	Very High	83%	31,520	\$86 (\$2.70M)	\$160 (\$5.05M)	\$3.37M
South Bend, South Bend Jr/Sr HS Koplitz Field House, Reinforced Masonry	1950	Very High	80%	16,254	\$63 (\$1.03M)	\$119 (\$1.93M)	\$1.29M
Boistfort, Boistfort Elementary Gym, Reinforced Masonry	1963	Very High	76%	14,530	\$60 (\$910K)	\$113 (\$1.71M)	\$1.14M
Cosmopolis, Cosmopolis Elementary, Main Bldg, Wood Framed	1960	Very High	72%	30,460	\$100 (\$3.03M)	\$187 (\$5.69M)	\$3.8M
Marysville, Totem Middle School Main Bldg, Reinforced Masonry	1966	Very High	66%	22,384	\$66 (\$1.45M)	\$123 (\$2.72M)	\$1.81M
Grand Coulee Dam, Lake Roosevelt K-12 CTE Bldg, Steel Light Frame	1955	High	60%	46,336	\$3.10 (\$142K)	\$5.70 (\$266K)	\$177K
White Salmon Valley, Columbia HS Gym, Precast Concrete Shear Wall	1970	High	49%	33,246	\$37 (\$464K)	\$70 (\$869K)	\$580K
Coupeville, Coupeville High School Gym, Reinforced Masonry	1981	Moderate	44%	10,000	\$22(\$216K)	\$40 (\$404K)	\$269K
Naches Valley, Naches Valley HS Main Bldg, Reinforced Masonry	1979	Moderate	33%	85,173	\$22 (\$1.07M)	\$42 (\$2.01M)	\$1.34M
Dayton, Dayton High School Gym, Steel Light Frame	1966	Moderate	32%	27,152	\$2 (\$50K)	\$3.50 (\$95K)	\$63K
Carbonado, Carbonado Historical School 19, Gym, Wood Framed	1936	Moderate	31%	5,700	\$110(\$593K)	\$206 (\$1.11M)	\$740K
Spokane, Adams Elementary School Main Building, Unreinforced Masonry	1910	Low	16%	27,300	\$42 (\$1.14M)	\$78 (\$2.14M)	\$1.43M
/ery High-Risk Median Cost:	\$13,240,000.00						
High-Risk Median Cost:	\$757,000.00						
Moderate-Risk Median Cost:	\$2,412,000.00						
ow-Risk Median Cost:	\$1,420,000.00						



2021/2023 Biennial Capital Budget

- \$40 million provided to retrofit the most highrisk schools identified by DNR's Phase 2 *School Seismic Safety Report*.
- Funded OSPI's Study & Survey Enhancement allowing OSPI to collect school building structural data whenever a district utilizes state funding.
- OSPI's School Seismic Safety Committee determines the order of consideration, and awards grants to schools determined to be the highest risk.
- School Seismic Safety Committee currently reviewing project priority list.





OSPI's 2022 Seismic Safety Budget Request

- \$8,561,000 requested to complete the six seismic retrofit installations that received funding in 2020.
- Without funding OSPI cannot complete retrofits at Cosmopolis ES & Marysville Totem MS.
- Additional funding responds to the discovery of highly-liquefiable soils at Pacific Beach ES.
- Highly liquefiable soils discovered at Boistfort ES.



Centralia's Edison Elementary received the state's first school seismic retrofit grant.



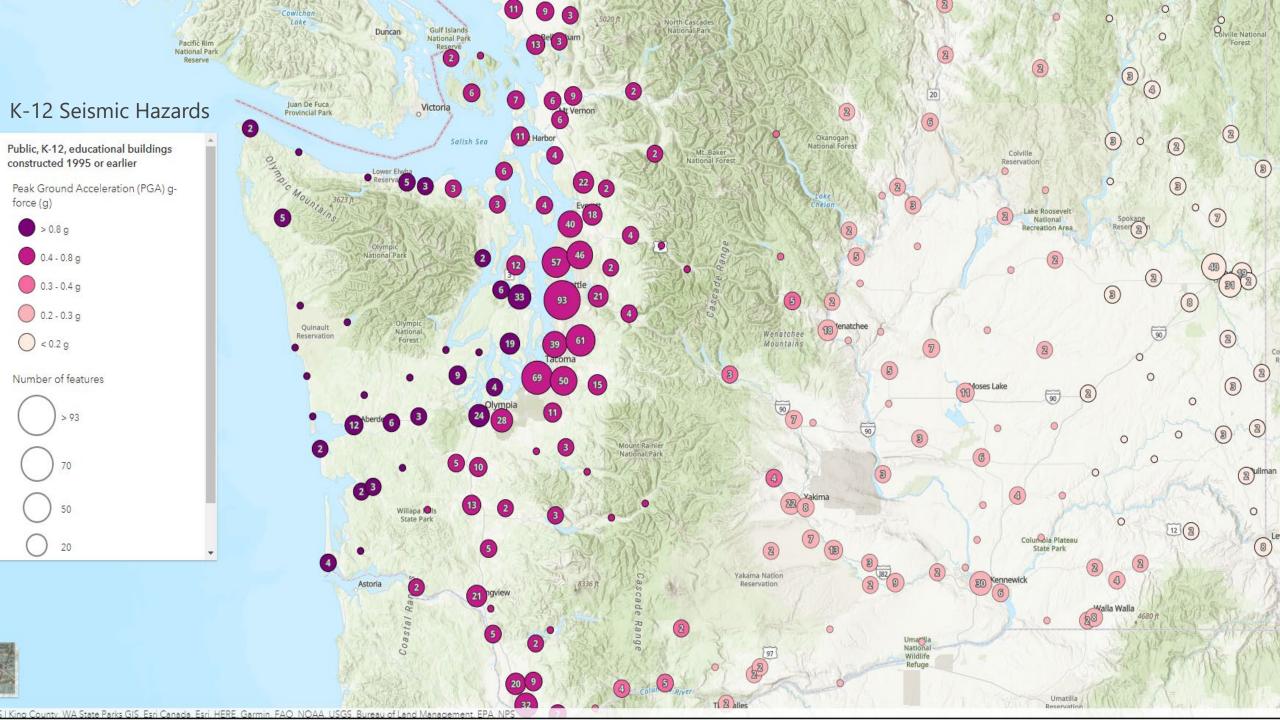
Schools in Tsunami Inundation Zone

Challenges Facing Coastal Schools:

- Inability to pass a capital levy or bond.
- Low property values.
- Communities within a tsunami inundation zone.
- Lack of dedicated staff to pursue federal funding.
- Highly liquefiable-soils.
- Highest levels of peak ground acceleration.







The Limitations of SCAP

- Most school districts have no ability outside of SCAP to claim state funding for a seismic retrofit.
- When school districts cannot raise local funding and the state does not offer funding, inequities become visible.
- Changes to the School Construction
 Assistance Program (SCAP) will not solve
 this problem for SCAP-ineligible school
 districts (that cannot pass bonds or levies).
- Solutions are needed for our most vulnerable schools on the coast & peninsula.



If passed, Proposition 1 (a 25-year bond measure) will allow North Beach SD to acquire land and construct a new elementary school out of the reach of a tsunami.



Moving Forward – Solutions for Our Schools

- OSPI believes a program structured like the Small District Modernization Grant Program (SB 5572 2019/20) is the best way to achieve seismic safety for small school districts.
- Districts that pass capital bonds and levies will be eligible for additional state funding under SCAP.
- Seismic retrofits are much more cost effective when performed during a major school modernization.
- Relocation or vertical evacuation may be the best option for older school buildings or buildings with a poor condition rating inside of a tsunami inundation zone.
- Solutions are needed for SCAP-ineligible school districts.







Thank you. Questions?

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